SC/QC/110V-Y1/2021-22-2/C1

Date: 02-05-2022

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Restoration and Improvements of Roads At Suryavamshi Layout, Synvika Vihara Layout, Sai Vihara Layout, Naidu Layout, Nagenahalli Layout And Surrounding Areas In Ward No-02 of Yelahanka Sub Division (PKG NO-01).}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s A.C.R Projects , Channa Reddy, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**161 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.18%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.75 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site: Balaji Layout 1st Main Ch: 49.00m to 89.00m

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SC/QC/110V-Y1/2021-22-2/CA1 **Date: 07-05-2022**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Restoration and Improvements of Roads At Suryavamshi Layout, Synvika Vihara Layout, Sai Vihara Layout, Naidu Layout, Nagenahalli Layout And Surrounding Areas In Ward No-02 of Yelahanka Sub Division (PKG NO-01).}

Ref.: Material testing/PMC/21-22,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s A.C.R Projects , Channa Reddy, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**98.25**	85-100	90 - 100
10 mm	**45.60**	0 - 20	25 - 55
4.75 mm	**3.95**	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	**27.56%**	Not to exceed 25 %
2.	Crushing value	**28.79%**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site: Synik vihar Layout 11th Main Ch: 120.00m to 134.90m

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SC/QC/110V-Y1/2021-22-2/K3

Date: 23-05-2022

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Restoration and Improvements of Roads At Suryavamshi Layout, Synvika Vihara Layout, Sai Vihara Layout, Naidu Layout, Nagenahalli Layout And Surrounding Areas In Ward No-02 of Yelahanka Sub Division (PKG NO-01).}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s A.C.R Projects , Channa Reddy, Bangalore.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.37	23.30	**23.16**	As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck
2	002	3.32	22.50		
3	003	3.40	23.70		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.64	**4.65**
2	002	4.72	
3	003	4.59	

The result of the materials tested meets the standards and hence can be used for the work
Sample Collected Site: Synik vihar Layout Ch: 204.80m to 224.60m

AE-02

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SC/QC/110V-Y1/2021-22-2/W4

Date: 18-05-2022

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Restoration and Improvements of Roads At Suryavamshi Layout, Synvika Vihara Layout, Sai Vihara Layout, Naidu Layout, Nagenahalli Layout And Surrounding Areas In Ward No-02 of Yelahanka Sub Division (PKG NO-01).}
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s A.C.R Projects , Channa Reddy, Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**98.45**	95-100
26.50	**---**	-
22.40	**72.15**	60-80
11.20	**56.25**	40-60
4.75	**34.90**	25-40
2.36	**21.05**	15-30
0.600	**18.25**	8-22
0.075	**3.50**	0-5

The result of the materials tested meets the standards and hence can be used for the work
Sample Collected Site: Synik Vihar Layout 5th Main Ch: 123.50m to 153.50m

AE-02

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SC/QC/110V-Y1/2021-22-2/BD1

Date: 27-05-2022

L. TEST REPORT ON BITUMEN SAMPLE:

Sub: Testing of Bitumen sample VG-30 Grade.
(Project*: Restoration and Improvements of Roads At Suryavamshi Layout, Synvika Vihara Layout, Sai Vihara Layout, Naidu Layout, Nagenahalli Layout And Surrounding Areas In Ward No-02 of Yelahanka Sub Division (PKG NO-01).)
Ref.: Material testing/PMC/21-22,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s A.C.R Projects , Channa Reddy, Bangalore.
Technical Reference: Ministry of Road Transport and Highways, V Revision, 2013 and IS 73: 1992.

TABLE 1.1 ;

L No	Details	Test Results	Requirements as per I.S 73 –1992 Specifications
.	Penetration at 25^0 C	**52.70^0 C**	Min. 45
.	Ductility Value at 25^0 C	**108.90 cm**	40
.	Flash point	**247^0 C**	Minimum 220^0 C
	Softening point	**51.40^0 C**	Min. 47

e result of the materials tested meets the standards and hence can be used for the work
mple Collected Site: Synik Vihar Layout 11th Main Ch: 60.00m to 90.00m

AE-02

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